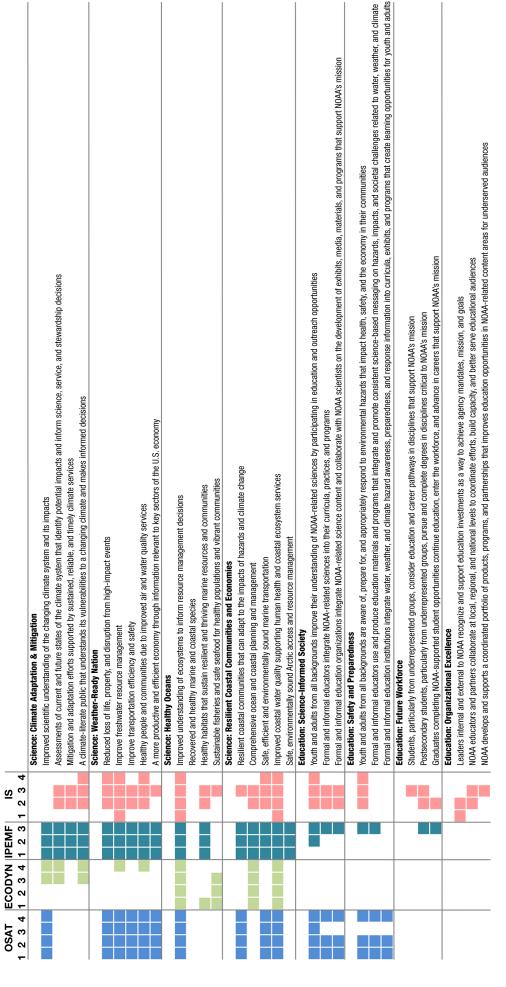
Matrix: GLERL Goals by Branch^{1,2} X NOAA Science and Education Goals and Objectives

GLERL Branch Goals NOAA Goals and Objectives



¹ GLERL Science Branches:

OSAT- Observing Systems and Advanced Technology

EcoDyn - Ecosystem Dynamics

IPEMF - Integrated Physical and Ecological Modeling and Forecasting

IS - Information Services

² GLERL goals are indexed by science branch, and can be found on the next page.

Matrix Crosswalk: GLERL Goals by Branch

Branch	Goal
OSAT	Expanded use and application of technology to enhance remote sensing capacity to assess ecosystem impacts and for use in modeling and operations.
	Improved in situ observational capacity to increase number of sites and number of instruments and sensors at those sites.
	 Observational infrastructure (e.g., instrumentation and equipment, mobile and fixed platforms, and data management) provides reliability and flexibility needed for innovation on a long-term basis.
	Operational capacity that supports research and the transition of products to operations.
EcoDyn	A holistic understanding of the role of established and potentially future invasive species on Great Lakes ecosystems.
	2. An integrated understanding of the spatial organization of the food webs and nutrient use and transport from nearshore to offshore food webs.
	3. The capacity to forecast effects of climate change on Great Lakes food webs.
	4. A quantitative understanding of the drivers of HABs to predict their concentration, extent, movement, and toxicity.
IPEMF	Integrated modeling system to improve forecast capability of lake hydrodynamics, lake ice, hydrological response, ecological processes, water quality, and climatic variability and trends across spatial and temporal scales.
	2. Enhanced/ improved capability for medium- and long-range forecasts by quantifying uncertainty and developing skill assessment tools (long-term, decadal scale climate)
	Be a trusted scientific leader on prediction of high impact or extreme events, including prediction on water issues of regional and national significance.
IS	A collaborative organizational environment that fosters information flow, transparency, trust, and a team-building approach, and enhances the functionality of GLERL programs and staff.
	 Increased awareness and understanding of GLERL expertise, programs, products, and services among other NOAA programs, NOAA leadership and Congress.
	3. Information needs of constituent groups (e.g. other governmental agencies, resource managers, decisionmakers, researchers, media, private industry, educational institutions, NGO's, general public) in the Great Lakes region are met.
	 Recognition of NOAA GLERL as a resource for research products and services utilized by constituent groups and partners in the Great Lakes and beyond.